Date: User: Thursday, 3/2/2006 3:07:47 PM

Kim Johnston

Process Sheet

Customer Job Number : CU-DAR001 Dart Helicopters Services

: 26033

Estimate Number

: 10345

P.O. Number This Issue

:NIA

: 3/2/2006

S.O. No. : N/A

: NC

: N/A : 24625

Type

: MACHINED PARTS

Part Number **Drawing Number**

Due Date

Drawing Name

: D28571 : D2857 REV A1

: HINGE BRACKET

Project Number

: N/A : A1

Drawing Revision Material

: NIA

: 3/26/2006

Qty:

24 Um:

Each

Written By

Prsht Rev.

First issue

Previous Run

Checked & Approved By

Comment

: Est C 00.06.22

Removed P/O for powder coat EC

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

M6061T6B2000X01250

6061-T6 Bar 2.0" x 1.25"



Comment: Qty.:

0.4594 f(s)/Unit Total: 11.0250 f(s)

Material: 2.00" X 1.25"

6061-T6 (QQ-A-225/8 or QQ-A-250/11 or QQ-A-200/8)

(M6061T6B200001250) Batch M 100 45 1

2.0

BAND SAW

BAND SAW

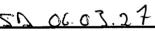


20.00.2

Comment: BAND SAW

Cut blanks 5.2"

HAAS CNC VERTICAL MACHINING #1



3.0

HAAS1



Comment: HAAS CNC VERTICAL MACHINING #1

Machine per folio D2857-1

4.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
	ļ										

Part No:	PAR #:	Fault Category:	_ NCR: Yes (No) D	QA:	Date: 00/04/8
			QA: N/C Clos	sed:	Date:

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B	Verification	A	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspector
16013.76	3	1 part dimension . 147 ± .010 is . 135 . 002 under tolerane, is part acceptable?	pt 06.03.27	Port ucuptable por attached D. Shepherd e-mail	JL 06.03.28	16-03-18	06-03.21 06-03.21	06-01-18
								·
							•	Æ

NOTE: Date & initial all entries

Thursday, 3/2/2006 3:07:47 PM Date: Kim Johnston User: **Process Sheet** Drawing Name: HINGE BRACKET Customer: CU-DAR001 Dart Helicopters Services Part Number: D28571 Job Number: 26033 Job Number: Description: Seq. #: **Machine Or Operation:** SMALL & MEDIUM FAB RESOURCE 1 SMALL FAB 1 5.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Tumble 2-Deburr any rough edges after tumbling HAND FINISHING RESOURCE #1 HAND FINISHING1 6.0 Comment: HAND FINISHING RESOURCE #1 Acid etch and Alodine as per QSI 005 4.3 INSPECT WORK TO CURRENT STEP 7.0 QC5 Comment: INSPECT WORK TO CURRENT STEP POWDER COATING POWDER COATING 8.0 Comment: POWDER COATING Powder Coat Gloss White (Ref. 4.3.5.1) per Dart QSI 005 4.3 INSPECT POWDER COAT/CHEMICAL CONVERSION 9.0 QC3 Comment: INSPECT POWDER COAT PACKAGING RESOURCE #1 10.0 **PACKAGING 1** Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 5739/ DOCUMENT CONTROL 11.0 11 0604.20 Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion

W/O: WORK ORDER CHANGES									
DATE	STEP	Pi	ROCEDURE CHANGE	:	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspector
									
Part No	:	PAR #:	Fault Category:	NCF	R: Yes	No DQ	A:	_ Date: _	
					QA: I	N/C Close	d:	_ Date: _	

NCR:	 	WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date/	Section C	Approval Chief Eng	Approval QC Inspecto			
	·	1 part missing of the 24. Store had 23 parts.	Vo wan	Chief Eng Count as 23, F.P. to Abosutly count Qty of Finished products.	16-04-24	06.04.24	Rosens	0604.2			
			t.								
								·			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	26033	
Description: Hinge Bracket	Part Number:	D2857-1	
Inspection Dwg: D2857 Rev: A1		Page 1 of 1	

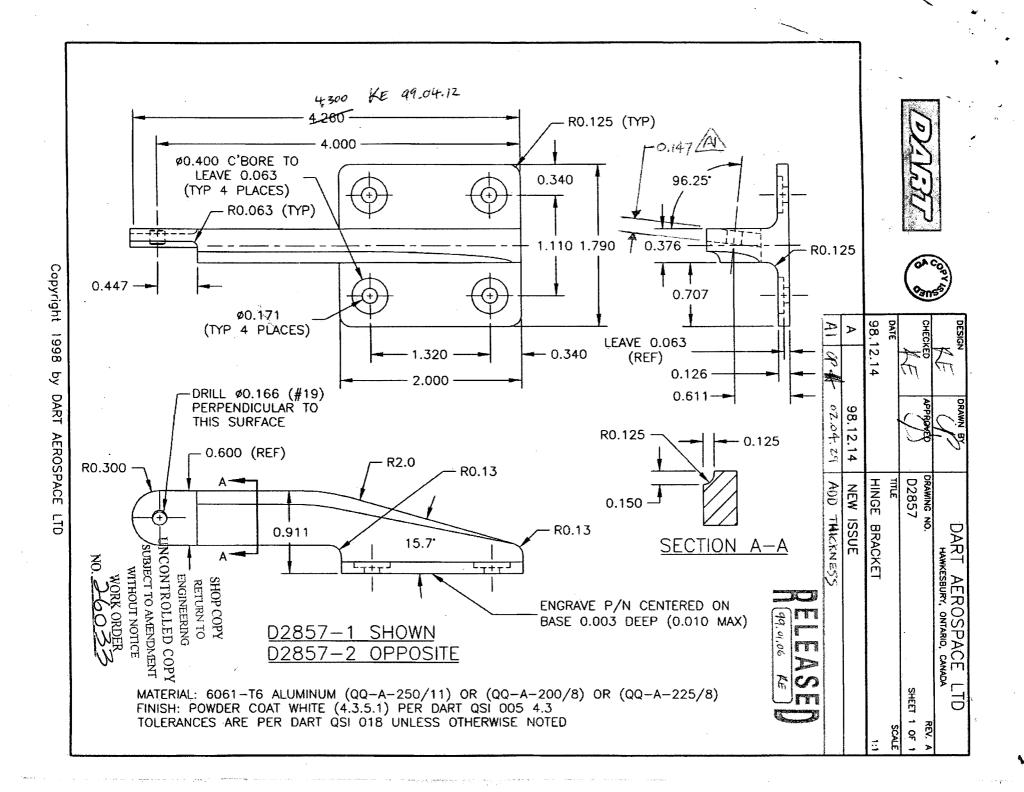
FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
4.300	+/-0.010	4.301				
0.340	+/-0.010	.341				
1.110	+/-0.005	1.112				
1.790	+/-0.010	1.791	/			
1.320	+/-0.005	1.32/				
2.000	+/-0.010	2.001				
Ø0.171	+0.005/-0.000	0.171				
0.147	+/-0.010	.137			-	see attached e-mai
0.376	+/-0.010	376				
0.126	+/-0.010	./34 .				
0.063	+/-0.010	.067				
Ø0.166	+0.005/-0.000	× 168				
0.911	+/-0.010	, 914				
0.600	+/-0.010	602				
0.125	+/-0.010	. 127	//			
0.150	+/-0.010	-150				

Measured by:	5-1	AZ	Audited by:	in	Prototype Approval:	N/A
Date:	06.0	3.27	Date:	06/03/28	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	04.06.15	New Issue	KJ/JLM	



Peter Hum

From: Sent:

David Shepherd [davids@dartaero.com] Tuesday, March 28, 2006 4:41 PM

To:

Peter Hum

Subject:

Re: d2857 deviation

Acceptable deviation for this one part. Only 0.002" out of tolerance. Please have them adjust the manufacturing process so that the future parts are within tolerance.

```
David
---- Original Message -----
From: "Peter Hum" <phum@dartaero.com>
To: "David Shepherd (E-mail)" <davids@dartaero.com>
Sent: Tuesday, March 28, 2006 2:13 PM
Subject: d2857 deviation
> David,
> I sent you fax showing that the thickness of the D2587-1 is out of
tolerance
> The actual D2857-1 hinge bracket thickness 0.135. The nominal dimension
> 0.147. Therefore, the part is under tolerance by 0.002".
> Is this deviation acceptable?
> Peter Hum
> Mechanical Designer
> DART Aerospace Ltd.
> Email...phum@dartaero.com
> Phone...613-632-3336
> Fax.....613-632-4443
```